Inspiring Innovation • Persistent Perfection

P8B WS
Powerful Onboard Graphics for OpenGL Boost

- Intel® workstation-specific C206 chipsets
- Ultimate OpenGL performance - best choice for professional workstation users
- Diverse CPU and memory support - wide coverage for different needs
- Dual Intel server-class LAN on board - reliable networking experience
- USB 3.0/SATA 6Gb/s - high speed transfer technology
- EFI BIOS (with EZ Mode) - flexible and easy BIOS interface

Workstation essentials for your professional studio

The ASUS Workstation Series is the ideal foundation for a powerful PC. It delivers awesome power, dependable performance and unparallel multiple I/O scalability for the most demanding tasks and future upgrades. It intelligently reduces operation noise and dissipates heat through advanced and environmentally friendly methods to accommodate user needs. ASUS Workstation Series motherboards also bring you ultimate reliability and quality through our 24x24 initiative, which means 24-hour operation and a 24-month life cycle supply guarantee. Let the ASUS Workstation Series improve the quality of your work and life.

ASUS Workstation Exclusive Features

Designed with Optimized Workstation Architecture

The P8B WS features Intel® Xeon® E3-1200 workstation processors and the workstation-specific Intel® C206 chipset to boost extreme-output HD3000 integrated graphic. It provides ultimate visualization and 3D modeling capabilities, with dedicated support for profession applications for Adobe® Photoshop™, Autodesk® AutoCAD® , Autodesk® Inventor®, UGS® Solid edge® and more to experience extreme graphic performance.

Ultimate Graphics Performance with NVIDIA Quadro GPUs

P8B WS is specially designed with BIOS and motherboard PCB layout to accommodate optimized professional openGL performance. Benchmarking in SPECviewperf ®11 indicates this design results in outstanding performance, so users in computer-aided design (CAD), computer-aided engineering (CAE), digital content creation (DCC) and geographic information systems (GIS) can make good use of the ample graphics power the P8B WS supports.

Diverse CPU and Memory Types

The P8B WS supports 2nd generation Intel® Core i3 series desktop processors and Intel® Xeon E3-1200 series server/workstation CPUs. System builders can also choose between robust server-grade DDR3 ECC unbuffered memory modules and more mainstream and readily available DDR3 non-ECC unbuffered memory. By supporting different processors and memory types, the P8B WS affords a wide range of workstation builds for every budget and need.

Built in Dual Intel Server-class Gigabit LAN

For more reliable networking, the P8B WS features built-in dual Intel server-class Gigabit LAN. It uses lower CPU utilization, increasing throughput to achieve outstanding performance as well as better support for diverse operating systems. It also features teaming and fault tolerance functions provide doubled bandwidth/network redundancy compared to standard Gigabit LAN. Intel 82574L chipsets are certified by VMware for native virtualization support.

CPU, Chipset and Graphics features

Socket LGA1155 for Intel® Second Generation Core i3 and Xeon Processors

This motherboard supports the latest Intel® second generation Core i3 and Xeon E3-1200 series processors in the LGA1155 package, with memory and PCI Express controllers integrated to support 2-channel (4 DIMM) DDR3 memory and 20 PCI Express 2.0 lanes. This provides great graphics performance. Intel® second generation Core i3 and Xeon E3-1200 series processors are among the most powerful and energy efficient CPUs in the world.

Intel® C206

The Intel® C206 Express is the latest single-chipset design that supports the new Socket 1155 Intel Core i3 2nd generation processors and Intel® Xeon E3-1200 series server/workstation processors processors. It improves performance by utilizing serial point-to-point links, allowing for increased bandwidth and stability. Additionally, the C206 comes with two SATA 6Gb/s and four SATA 3Gb/s ports for faster data retrieval, doubling the bandwidth of current bus systems. Moreover, the Intel® C206 Express chipset also supports iGPU on-board graphics boosts.

Quad-GPU CrossFireX!

Flexible multi-GPU - your weapon of choice!

The P8B WS brings you AMD quad CrossFireX graphics, featuring the powerful Intel Intel® C206 platform to optimize PCI Express allocation in multiple GPU configurations. Expect a brand new gaming style like you've never experienced before!

Future Transfer Technology

True USB 3.0 Support

10X Faster Date Rates!

Experience ultra-fast data transfers at 4.8Gbps with USB 3.0—the latest connectivity standard. Built to connect easily with next generation components and peripherals, USB 3.0 transfers data 10X faster and is also backward compatible with USB 2.0 components.

True SATA 6Gb/s Support

Experience the Future of Storage!

Supporting next-generation Serial ATA (SATA) storage interface, this motherboard delivers up to 6.0Gb/s data transfer rates. Additionally, get enhanced scalability, faster data retrieval, double the bandwidth of current bus systems.

ASUS Exclusive Features

EFI BIOS (with EZ Mode)

Flexible and easy BIOS interface

The brand new ASUS EFI BIOS offers a user-friendly interface that goes beyond traditional keyboard-only BIOS controls to enable more flexible and convenient mouse input. Users can easily navigate the new EFI BIOS with the same smoothness as their operating system. The exclusive EZ Mode displays frequently-accessed setup info, while the Advanced Mode is for experienced performance enthusiasts that demand far more intricate system settings.

AI Suite II

One-stop access to innovative ASUS features

With its friendly interface, AI Suite II consolidates all exclusive ASUS features into one simple-to-use package. It allows users to supervise overclocking, energy management, fan speed, voltage and sensor readings, even interact with mobile devices via Bluetooth. This all-in-one software offers diverse and easy to use functions, with no need to switch back and forth between different utilities.

Ai Charger+

ASUS Ai Charger+ brings you to a new level of USB 3.0-based device charging. With its easy and user-friendly interface, you can easily charge iPods, iPhones and iPads, as well as BC 1.1* standard mobile devices three times** faster than before.

*Check your USB mobile device manual for BC 1.1 support information. **Actual charging speed may vary.

EPU

Energy efficiency all around

Tap into the world's first real-time PC power saving chip through a simple onboard switch or the AI Suite II utility. Get total system-wide energy optimization by automatically detecting current PC loadings and intelligently moderating power consumption. This also reduces fan noise and extends component longevity!

ASUS Power Design

8+2 Phase Power Design

To fully unleash the potential of new Intel Sandy Bridge CPUs, this motherboard uses a brand new 8-phase VRM power design, delivering high power efficiency and supreme overclocking ability. Furthermore, high quality power components effectively lower system temperatures to ensure longer component lifespan. This motherboard also features 2-phase power dedicated to the integrated memory controller.

RoHS

GreenASUS

EU Energy-related Products (ErP) ready, which requires products meet strict energy efficiency standards. This is in line with the ASUS vision of creating environment-friendly and energy efficient products through product design and innovation to reduce the carbon footprint of products and thus mitigate environmental impact.

Specifications

CPU	Intel® Socket 1155 The 2nd Generation Core™ i3 Processors Intel® Socket 1155 for Intel® E3-1200 processors Supports Intel® 32 nm CPU Supports Intel® Turbo Boost Technology 2.0 * Refer to www.asus.com for CPU support list
Chipset	Intel® C206
Memory	4 x DIMM, Max. 32GB, DDR3 1333/1066 Hz ECC, Non-ECC Memory Dual Channel Memory Architecture Supports Intel® Extreme Memory Profile (XMP) * Refer to www.asus.com or user manual for the Memory QVL (Qualified Vendors Lists).
Graphic	Integrated Graphics Processor VGA output support : DVI port - Supports DVI with max. resolution 1920 x 1200 @ 60 Hz - Supports RGB with max. resolution 2048 x 1536 @ 75 Hz Maximum shared memory of 1748 MB
Multi-GPU Support	Supports AMD® Quad-GPU CrossFireX™ Technology
Expansion Slots	4 x PCIe 2.0 x16 (x16, x4, x4 or x8, x8, x4, x4) 1 x PCIe 2.0 x1 1 x PCI
Storage	**Intel® C206 chipset :** 2 x SATA 6Gb/s port(s), gray **Intel® C206 chipset :** 4 x SATA 3Gb/s port(s), blue Support Raid 0, 1, 5, 10
LAN	Intel® 82574L, 2 x Gigabit LAN Controller
Audio	Realtek® ALC 892 8-Channel High Definition Audio CODEC - Supports : Jack-detection, Multi-streaming, Front Panel Jack-retasking **Audio Feature :** - Blu-ray audio layer Content Protection - Optical S/PDIF out ports at back I/O
IEEE 1394	VIA® 6308S controller 2 x IEEE 1394a port(s)
USB Ports	**Built-in Controller :** 2 x USB 3.0 port(s) (2 at back panel, blue) **Intel® C206 chipset :** 14 x USB 2.0 port(s) (6 at back panel, gray, 8 at mid-board)
Workstation Feature	4 x PCIe x 16 slot(s) G.P. Diagnosis Card bundled Quick Gate: 2 x vertical USB 2.0 on board ASUS SASsaby series Cards support ASUS WS Diag. LED
Special Features	**GPU Boost with switch** **ASUS Power Design** - 8+2-phase **ASUS EPU** - EPU switch **ASUS Exclusive Features** - MemOK! - AI Suite II - Anti Surge - ASUS EFI BIOS with EZ Mode featuring a friendly graphical user interface **ASUS Quiet Thermal** - ASUS fanless heatsink - ASUS Fan Xpert **ASUS EZ DIY** - ASUS Q-Connector - ASUS CrashFree BIOS 3 - ASUS EZ Flash Utility **ASUS Q-Design** - ASUS Q-LED (CPU, DRAM, graphics, boot device LED) - ASUS Q-DIMM - ASUS Q-Slot
Back I/O Ports	1 x PS/2 keyboard/mouse combo port(s) 1 x DVI-I 1 x IEEE 1394a 2 x LAN (RJ45) port(s) 2 x USB 3.0 6 x USB 2.0 1 x Coaxial S/PDIF out 1 x Optical S/PDIF out 6 x Audio Jack(s)

Internal I/O Ports	2 x USB 2.0 connector(s) support(s) additional 4 USB 2.0 port(s) 2 x Vertical USB 2.0 port(s) 1 x TPM connector(s) 1 x COM port(s) connector(s) 1 x CPU Fan connector(s) 1 x Power Fan connector(s) 1 x S/PDIF out Header(s) 1 x 24-pin EATX Power connector(s) 1 x 8-pin ATX 12V Power connector(s) 1 x Front panel audio connector(s) (AAFP) 1 x System panel(s) 1 x MemOK! button(s)
BIOS	32MB flash ROM, EFI AMI BIOS, PnP, DMI2.0, WfM2.0, SM BIOS 2.6, ACPI 2.0a, multi-language BIOS, ASUS EZ Flash Utility, ASUS CrashFree BIOS 3
Manageability	WfM 2.0, DMI 2.0, WOL by PME, WOR by PME, PXE
Operating System	Windows® Server 2008 Enterprise 32/64-bit Windows® Server 2003 R2 Enterprise 32/64-bit Windows® 7 32/64-bit Windows® Vista 32/64-bit Windows® XP 32/64-bit
Form Factor	ATX Form Factor 12 inch x 9.6 inch (30.5 cm x 24.5 cm)